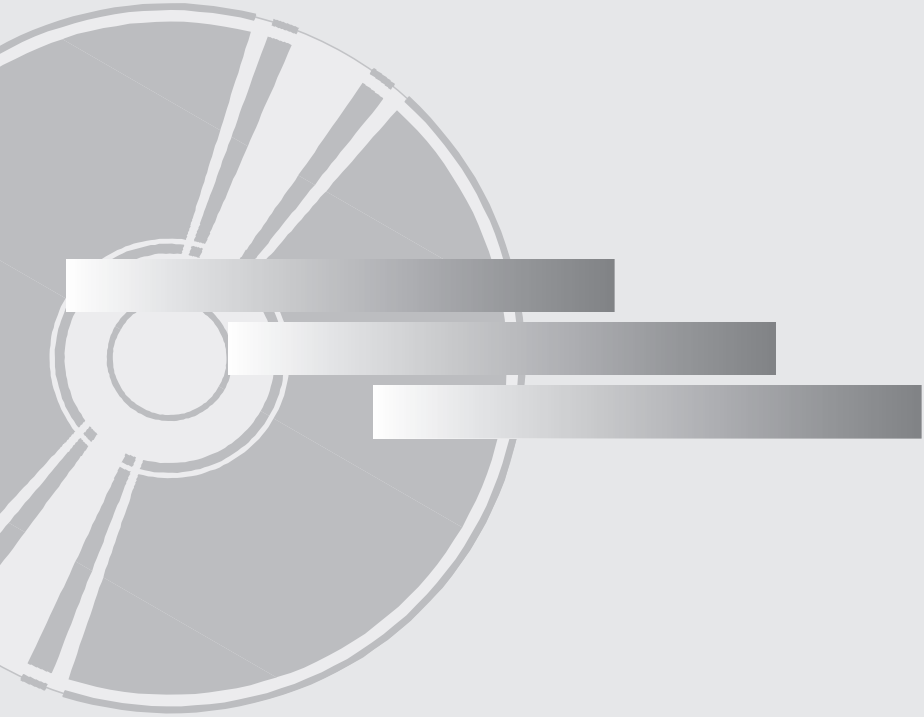
SAMSUNG

DVD Player
DVD-P480R



DVD VIDEO

COMPACT disc DIGITAL AUDIO

www.samsung.com

AK68-01510C

PRECAUTIONS

1. Setting up

- Refer to the identification label located on the rear of your player for its proper operating voltage.
- Install your player in a cabinet with adequate ventilation holes. (7~10cm) Do not block ventilation holes on any of the components for air circulation.
- Do not push the disc tray in by hand.
- Do not stack components.
- Be sure to turn all components off before moving the player.
- Before connecting other components to this player, be sure to turn them off.
- Be sure to remove the disc and turn off the player after use, especially if you don't use it for a long time.
- The mains plug is used as a disconnect device and shall readily operable at any time.

2. For your safety

- This product utilizes a laser. Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
- Do not open covers and do not repair yourself. Refer servicing to qualified personal.

3. Caution

- Your player is not intended for industrial use but for domestic purposes. Use of this product is for personal use only.
- Apparatus shall not be expossed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.
- Exterior influences such as lightning and static electricity can affect normal operation of this player. If this occurs, turn the player off and on again with the POWER button, or disconnect and then reconnect the AC power cord to the AC power outlet. The player will operate normally.
- When condensation forms inside the player due to sharp changes in temperature, the player may not operate
correctly. If this occurs, leave the player at room temperature until the inside of the player becomes dry and operational.

4. Disc

- Do not clean record-cleaning sprays, benzene, thinner, or other volatile solvents that may cause damage to the disc surface.
- Do not touch the disc's signal surface. Hold by the edges or by one edge and the hole in the center.
- Wipe the dirt away gently; never wipe a cloth back and forth over the disc.

5. Environmental info

- The battery used in this product contains chemicals that are harmful to the environ ment.
- So, dispose of batteries in the proper man ner, according to federal, state, and local regulations.

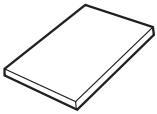
The product unit accompanying this user manual is licensed under certain intellectual property rights of certain third parties. This license is limited to private non-commercial use by end-user consumers for licensed contents. No rights are granted for commercial use. The license does not cover any product unit other than this product unit and the license does not extend to any unlicensed product unit or process conforming to ISO/OUR 11172-3 or ISO/OUR 13818-3 used or sold in combination with this product unit. The license only covers the use of this product unit to encode and/or decode audio files conforming to the ISO/OUR 11172-3 or ISO/OUR 13818-3. No rights are granted under this license for product features or functions that do not conform to the ISO/OUR 11172-3 or ISO/OUR 13818-3.

CAUTION: USE OF ANY CONTROLS, ADJUSTMENTS, OR PROCEDURES OTHER THAN SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

BEFORE YOU START

Remote Control

Batteries for Remote Control (AAA Size)



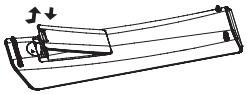
User's Manual

Video/Audio Cable

FM Antenna

Install Batteries in the Remote control

1. Open the battery cover on the back of the remote control.
2. Insert two AAA batteries.
   Make sure that the
   polarities (+ and -) are aligned correctly.
3. Replace the battery cover.



If remote control doesn't operate properly:

- Check the polarity + - of the batteries (Dry-Cell)
- Check if the batteries are drained.
- Check if remote control sensor is blocked by obstacles.
- Check if there is any fluorescent lighting nearby.

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General Features

Excellent Sound
Dolby Digital, a technology developed by Dolby Laboratories, provides crystal clear sound reproduction.

Screen
Both regular and widescreen(16:9) pictures can be viewed.

Slow Motion
An important scene can be viewed in slow motion.

Parental Control (DVD)
The parental control allows users to set the level necessary to prohibit children from viewing harmful movies such as those with violence, adult subject matter, etc.

Various On-Screen Menu Functions
You can select various languages (Audio/Subtitle) and screen angles while enjoying movies.

Progressive Scan
Progressive scanning creates an improved picture with double the scan lines of a conventional interlaced picture.

EZ VIEW (DVD)
Easy View enables picture adjustment to match your TV's screen size (16:9 or 4:3).

Digital Photo Viewer (JPEG)
You can view Digital Photos on your TV.

Repeat
You can repeat a song or movie simply by pressing the REPEAT button.

MP3/WMA
This unit can play discs created from MP3/WMA files.

MPEG4
This unit can play MPEG4 formats within an avi file.

CD Ripping
This feature lets you to copy audio files from disc to USB device into MP3 format (only audio CD (CD DA)).

FM Radio
You can listen your favourite FM Radio channel on your TV.

Note

- Discs which cannot be played with this player.
  - DVD-ROM • DVD-RAM
  - CD-ROM • CDV
  - CDI • CVD
  - CDGs play audio only, not graphics.
- Ability to play back may depend on recording conditions.
  - DVD-R, +R
  - CD-RW
  - DVD+RW, -RW (V mode)
- The unit may not play certain CD-R, CD-RW and DVD-R due to the disc type or recording conditions.

COPY PROTECTION

Many DVD discs are encoded with copy protection. Because of this, you should only connect your DVD player directly to your TV, not to a VCR. Connecting to a VCR results in a distorted picture from copy-protected DVD discs.

This product incorporates copyright protection technology that is protected by methods claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

PROGRESSIVE SCAN OUTPUTS (525p)

“CONSUMERS SHOULD NOTE THAT NOT ALL HIGH DEFINITION TELEVISION SETS ARE FULLY COMPATIBLE WITH THIS PRODUCT AND MAY CAUSE ARTIFACTS TO BE DISPLAYED IN THE PICTURE, IN CASE OF 525 PROGRESSIVE SCAN PICTURE PROBLEMS, IT IS RECOMMENDED THAT THE USER SWITCH THE CONNECTION TO THE ‘STANDARD DEFINITION’ OUTPUT. IF THERE ARE QUESTIONS REGARDING YOUR TV SET COMPATIBILITY WITH THIS MODEL 525p DVD PLAYER, PLEASE CONTACT SAMSUNG'S CUSTOMER SERVICE CENTER.”

Disc Type and Characteristics

This DVD player is capable of playing the following types of discs with the corresponding logos:

Disc Types (Logos)	Recording Types	Disc Size	Max. Playing Time	Characteristics
DVD	Audio + Video	12 Cm	Single-sided 240 min. Double-sided 480 min.	- DVD contains excellent sound and video due to Dolby Digital and MPEG-2 system. - Various screen and audio functions can be easily selected through the on-screen menu.
		8 Cm	Single-sided 80 min. Double-sided 160 min.	
VIDEO-CD	Audio + Video	12 Cm	74 min.	- Video with CD sound, VHS quality & MPEG-1 compression technology.
		8 Cm	20 min.	
AUDIO-CD	Audio	12 Cm	74 min.	- CD is recorded as a Digital Signal with better audio quality, less distortion and less deterioration of audio quality over time.
		8 Cm	20 min.	

Disc Markings

	Play Region Number
PAL	PAL broadcast system in U.K, France, Germany, etc.
DOLBY DIGITAL	Dolby Digital disc
STEREO	Stereo disc
DIGITAL SOUND	Digital Audio disc
dts Digital Out	DTS disc
MP3	MP3 disc

You must only insert one DVD disc at a time. Inserting two or more discs will not allow to play them back and it may cause damage to the DVD player.

Region Number

Both the DVD player and the discs are coded by region. These regional codes must match in order for the disc to play. If the codes do not match, the disc will not play.

The Region Number for this player is described on the rear panel of the player.

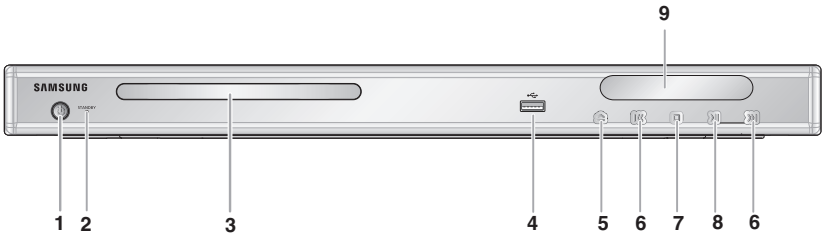
DivX Certification

DivX, DivX Certified, and associated logos are trademarks of DivXNetworks, Inc and are used under license.

English

Description

Front Panel Controls



1. **STANDBY/ON (⏻)**
   When STANDBY/ON is pressed on, the indicator goes out and the player is turned on.
2. **STANDBY indicator**
   When the unit is first plugged in, this indicator lights.
3. **DISC TRAY**
   Place the disc here.
4. **USB HOST**
   Connect digital still camera, MP3 player, memory stick, Card reader other removable storage devices.
5. **OPEN/CLOSE (⏏)**
   Press to open and close the disc tray.
6. **SKIP (⏮ / ⏭) SEARCH**
   Allow you to search forward/backward through a disc. Use to skip the title, chapter or track.
7. **STOP (⏹)**
   Stops disc play.
8. **PLAY/PAUSE (⏯)**
   Begin or pause disc play.
9. **DISPLAY**
   Operation indicators are displayed here.

Front Panel Display

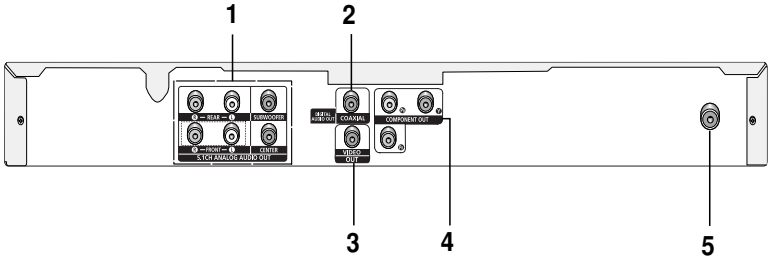
Total playing time/Displays various messages concerning operations such as PLAY, STOP, LOAD ...

nodSC: No disc loaded.

OPEn: The disc tray is open.

LOAd: Player is loading disc information.

Rear Panel



1. 5.1CH ANALOG AUDIO OUT JACKS

- Connect to an amplifier with 5.1ch analog input jacks.

2. DIGITAL AUDIO OUT JACKS

- Use a coaxial digital cable to connect to a compatible Dolby Digital receiver.
- Use a coaxial digital cable to connect to an A/V Amplifier that contains a Dolby Digital, MPEG2 or DTS decoder.

3. VIDEO OUT JACK

- Use a video cable to connect to the Video input jack on your television.
- The Video Output in Setup Menu must be set to Component(I-SCAN).

4. COMPONENT VIDEO OUT JACKS

- Use these jacks if you have a TV with Component Video in jacks. These jacks provide P_R, P_B and Y video.
- If Component(P-SCAN) Video Output is selected in Setup Menu, progressive scan mode will work.
- If Component(I-SCAN) Video Output is selected in Setup Menu, interlaced scan mode will work.

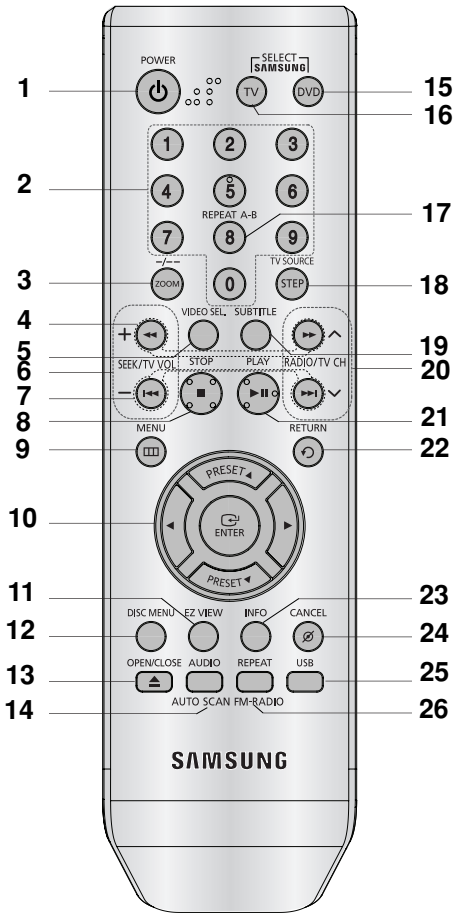
5. ANTENNA IN JACK

- Connect FM antenna cable.

Note

- Consult your TV User's Manual to find out if your TV supports Progressive Scan. If Progressive Scan is supported, follow the TV User's Manual regarding Progressive Scan settings in the TV's menu system.
- See pages 29 ~ 30 to get more information on how to use the setup menu.

Tour of the Remote Control



1. **DVD POWER Button**
   Turns the power on or off.
2. **NUMBER Buttons**
3. **ZOOM / (-/--) Button**
   Enlarge DVD Picture.
   Use this to select the channel of TV program by inserted the channel number (TV mode).
4. **SEARCH Buttons (◀◀ / ▶▶)**
   Allow you to search forward/backward through a disc.
5. **VIDEO SEL. Button**
   Selects video output formats.
6. **SEEK / TV VOL (+, -) Buttons**
   Allow you to search the nearest broadcasting channel frequency from the current frequency (FMRadio Mode).
   Allow you to control volume (TV Mode)
7. **SKIP Buttons (⏮ / ⏭)**
   Use to skip the title, chapter or track.
8. **STOP Button (■)**
9. **MENU Button**
   Brings up the DVD player's menu.
10. **ENTER/▲/▼,◀/▶ / PRESET Buttons**
    This button functions as a toggle switch (DVD Mode) or select preset value (FM Radio mode).
11. **EZ VIEW Button**
    The aspect ratio of a picture can easily be adjusted according to the screen size of your TV (16:9 or 4:3).
12. **DISC MENU Button**
    Brings up the Disc menu.
13. **OPEN/CLOSE (⏏) Button**
    To open and close the disc tray.
14. **AUDIO / AUTO SCAN Button**
    Use this button to access various audio functions on a disc. (DVD mode)
    Use this button to search automatically all the available broadcast channel and store it to the available preset (up to 0 Ch.) (FMRadio Mode).
15. **DVD Button**
    Press this when you use a DVD player.
16. **TV Button**
    Press this to operate TV.
17. **REPEAT A-B Button**
    Allows you to repeat A-B disc.
18. **STEP Button/TV Source**
    Advances play one frame at a time.
    Press to select an available TV source (mode TV).
19. **SUBTITLE Button**
20. **RADIO / TV CH (∧, ∨) Buttons**
    Use this button to search manually the available frequency broadcasting channel (FM Radio Mode)
    Channel selection (TV Mode)
21. **PLAY/PAUSE Button (▶II)**
    Begin/Pause disc play.
22. **RETURN Button**
    Returns to a previous menu.
23. **INFO Button**
    Displays the current disc mode.
24. **CANCEL Button**
    Use to remove menus or status displays from the screen.
25. **USB Button**
26. **REPEAT / FM RADIO Button**
    Allows you to repeat play a title, chapter, track, or disc (DVD mode).
    Use this button to select the FM Radio function menu on or off (FMRadio mode).

CONNECTIONS

Choosing a Connection

The following shows examples of connections commonly used to connect the DVD player with a TV and other components.

Before Connecting the DVD Player

- Always turn off the DVD player, TV, and other components before you connect or disconnect any cables.
- Refer to the user's manual of the additional components you are connecting for more information on those particular components.

Connection to a TV (For Video)

1

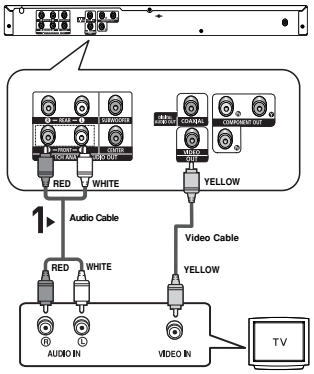
Using video/audio cables, connect the **VIDEO (yellow)**/**AUDIO (red and white) OUT** terminals of 5.1 CH (front L-R) on the rear of the DVD player to the **VIDEO (yellow)**/**AUDIO (red and white) IN** terminals of TV.

2

Turn on the DVD player and TV.

3

Press the **TV**/**VIDEO** button on the TV's remote control to select **Video**.



Note

- **Noise may be generated if the audio cable is too close to the power cable.**
- If you want to connect to an Amplifier, please refer to the Amplifier connection page. (See pages 12 to 14)
- The number and position of terminals can vary depending on your TV set. Please refer to the user's manual of the TV.
- If there is one audio input terminal on the TV, connect it to the [AUDIO OUT][left] (white) terminal of the DVD player.
- If you press the VIDEO SEL. button when DVD Player is in stop mode or no disc is inserted, the Video Output mode changes in the following sequence: (COMPONENT (I-SCAN) → COMPONENT(P-SCAN))

Connection to a TV (Interlace)

- Connecting to your TV using Component video cables.
- You will enjoy high quality and accurate color reproduction images. Component video separates the picture element into black and white(Y), blue(P_B), red(P_R) signals to present clear and clean images. (Audio signals are delivered through the audio output.)

1

Using component video cables (not included), connect the **COMPONENT VIDEO OUT** terminal on the rear of the DVD player to the **COMPONENT IN** terminal of TV.

2

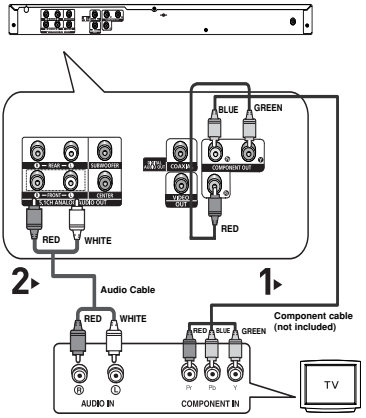
Using the audio cables, connect the **AUDIO (red and white) OUT** terminals of 5.1 CH (Front L-R)on the rear of the DVD player to the **AUDIO (red and white) IN** terminals of TV. Turn on the DVD player and TV.

3

Press the **TV/VIDEO** button on the TV's remote control to select **Component** or **DVD**.

4

Set the Video Output to **Component (I-SCAN)** in the Display Setup menu. (See pages 29 to 30)



Note

- If you want to connect to an Amplifier, please refer to the Amplifier connection page. (See pages 12 to 14)
- The component terminal of TV can be marked by “R-Y, B-Y, Y” or “Cr, Cb, Y” instead of “P_R, P_B, Y” depending on the manufacturer. The number and position of terminals can vary depending on the TV set. Please refer to the user's manual of the TV.

Connection to a TV (Progressive)

1

Using component video cables (not included), connect the **COMPONENT VIDEO OUT** terminal on the rear of the DVD player to the **COMPONENT IN** terminal of TV.

2

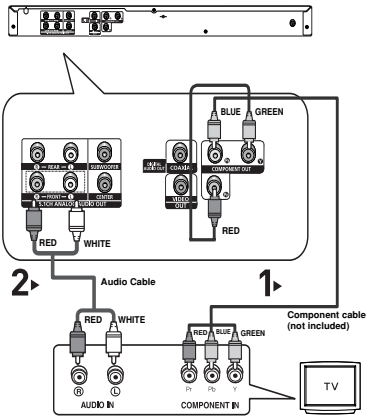
Using the audio cables, connect the **AUDIO (red and white) OUT** terminals 5.1 CH (Front L-R) on the rear of the DVD player to the **AUDIO (red and white) IN** terminals of TV. Turn on the DVD player and TV.

3

Press the input selector on your TV remote control until the Component signal from the DVD player appears on the TV screen.

4

Set the Video Output to **Component (P-SCAN)** in the Display Setup menu. (See pages 29 to 30)



To see the progressive video output,

- **Consult your TV User's Manual to find out if your TV supports Progressive Scan. If Progressive Scan is supported, follow the TV User's Manual regarding Progressive Scan settings in the TV's menu system.**
- **Depending on your TV, the connection method may differ from the illustration above.**

Note

- What is "Progressive Scan"?
  Progressive scan has twice as many scanning lines as the interlace output method has. Progressive scanning method can provide better and clearer picture quality.

English

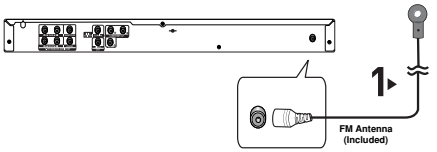
Connection to an FM Antenna

1

Connect the FM antenna supplied to the FM Antenna Jack.

2

Slowly move the antenna wire around until you find a location where reception is good, then fasten it to a wall or other rigid surface.



Note

- This unit does not receive AM broadcasts.

Connection to an Audio System (2 Channel Amplifier)

1

Using the audio cables, connect the **AUDIO (red and white) OUT** terminals of 5.1 CH (Front L-R)on the rear of the DVD player to the **AUDIO (red and white) IN** terminals of the Amplifier.

2

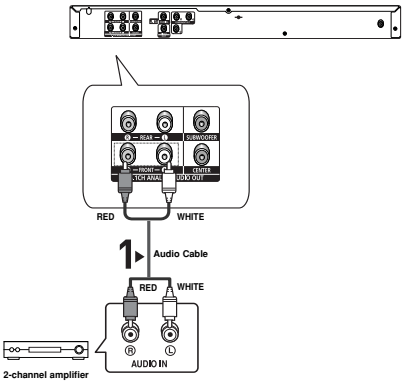
Using the video signal cable(s), connect the **VIDEO** or **COMPONENT OUT** terminals on the rear of the DVD player to the **VIDEO** or **COMPONENT IN** terminal of your TV.

3

Turn on the DVD player, TV, and Amplifier.

4

Press the input select button of the Amplifier to select **external input** in order to hear sound from the DVD player.



Note

- **Please turn the volume down when you turn on the Amplifier. Sudden loud sound may cause damage to the speakers and your ears.**
- Please set the audio in the menu screen according to the Amplifier. (See pages 27 to 29)
- The position of terminals can vary depending on the Amplifier. Please refer to the user's manual of the Amplifier.

Connection to an Audio System (Dolby digital, MPEG2 or DTS Amplifier)

1

If using a coaxial cable (not included), connect the **DIGITAL AUDIO OUT (COAXIAL)** terminal on the rear of the DVD player to the **DIGITAL AUDIO IN (COAXIAL)** terminal of the Amplifier.

2

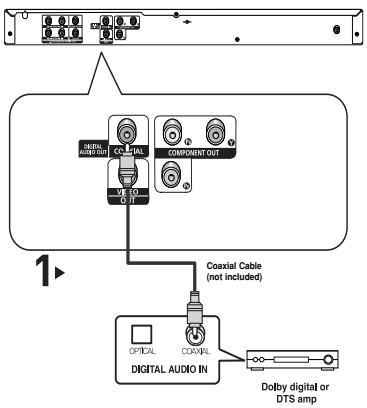
Using the video signal cable(s), connect the **VIDEO** or **COMPONENT OUT** terminals on the rear of the DVD player to the **VIDEO** or **COMPONENT IN** terminal of TV.

3

Turn on the DVD player, TV, and Amplifier.

4

Press the input select button of the Amplifier to select **external input** in order to hear sound from the DVD player.



Note

- **Please turn the volume down when you turn on the Amplifier. Sudden loud sound may cause damage to the speakers and your ears.**
- Please set the audio in the menu screen according to the Amplifier. (See pages 27 to 29)
- The position of terminals can vary depending on the Amplifier.
  Please refer to the user's manual of the Amplifier.

Connection to a 5.1CH Analog Amplifier

1

If using audio cables for 5.1 CH Analog Amplifier (not included) connect the **5.1CH ANALOG AUDIO OUT** terminals on the rear of the DVD player to the **5.1CH ANALOG AUDIO IN** terminals of the 5.1CH Analog Amplifier.

2

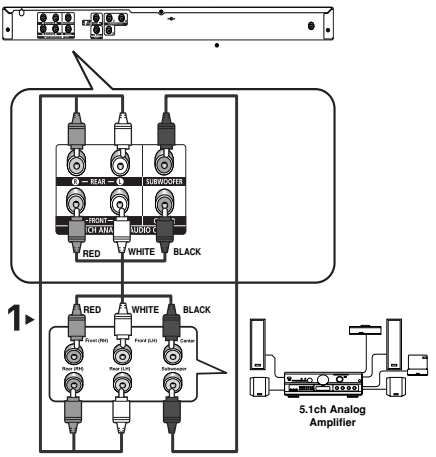
Using the video signal cable(s), connect the **VIDEO** or **COMPONENT** terminals on the rear of the DVD player to the **VIDEO** or **COMPONENT** terminals of your TV as described on pages 9 to 11.

3

Turn on the DVD player, TV, and Amplifier.

4

Press the input select button of the Amplifier to select **external input** in order to hear sound from the DVD player.



Note

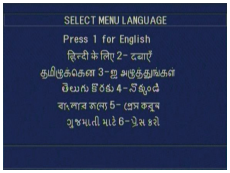
- **Please turn the volume down when you turn on the Amplifier. Sudden loud sound may cause damage to the speakers and your ears.**
- Please set the audio in the menu screen according to the Amplifier. (See pages 27 to 29)
- The position of terminals may vary depending on the Amplifier.
  Please refer to the user's manual of the Amplifier.

Playing a Disc

Before Play

- Turn on your TV and set it to the correct Video Input by pressing TV/VIDEO button on the TV remote control.
- If you connected an external Audio System, turn on your Audio System and set it to the correct Audio Input.

After plugging in the player, the first time you press the DVD **POWER** button, this screen comes up: If you want to select a language, press a **NUMBER** button. (This screen will only appear when you plug in the player for the first time.)
If the language for the startup screen is not set, the settings may change whenever you turn the power on or off. Therefore, make sure that you select the language you want to use.
Once you select a menu language, you can change it by pressing the ⏭ button on the front panel of the unit for more than 5 seconds with no disc in the unit. Then the **SELECT MENU LANGUAGE** window appears again where you can reset your preferred language.



Playback

1. Press the **OPEN/CLOSE (⏏)** button. The STANDBY indicator light goes out and the tray opens.
2. Place a disc gently into the tray with the disc's label facing up.
   - You must only insert one DVD disc at a time. Inserting two or more discs will not allow to play them back and it may cause damage to the DVD player.
3. Press the **PLAY/PAUSE (⏯)** button or **OPEN/ CLOSE (⏏)** button to close the disc tray.
   - When you stop disc play, the player remembers where you stopped, so when you press PLAY/PAUSE (⏯) button again, it will pick up where you left off. (unless the disc is removed or the player is unplugged, or if you press the STOP (■) button twice.)
4. **Stopping Play**
   Press the **STOP (■)** button during play.
5. **Removing Disc**
   Press the **OPEN/CLOSE (⏏)** button.
6. **Pausing Play**
   Press the **PLAY/PAUSE (⏯)** or **STEP** button on the remote control during play.
   - Screen stops, no sound.
     To resume, press the PLAY/PAUSE (⏯) button once again.
7. **Step Motion Play (Except CD)**
   Press the **STEP** button on the remote control during play.
   - Each time the button is pressed, a new frame will appear.
   - No sound is heard during STEP mode.
   - Press the PLAY/PAUSE (⏯) button to resume normal play.
   - You can only perform step motion play in the forward direction.
8. **Slow Motion Play**
   Press and hold the **SEARCH (◀◀/▶▶)** button to choose the play speed between 1/8, 1/4 and 1/2 of normal during PAUSE or STEP mode.
   - No sound is heard during slow mode.
   - Press the PLAY/PAUSE (⏯) button to resume normal play.

Note

- If the player is left in the stop mode for more than one minute without any user interaction, a screen saver will be activated. Press the PLAY/PAUSE (⏯) button to resume normal play.
- If the player is left in the stop mode for more than about 30 minutes, the power will automatically shut off.(Automatic Power-Off Function)
- If the player is left for about 5 minutes in pause mode, it will stop.
- This (⊘) icon indicates an invalid button press.

Using the Search and Skip Functions

During play, you can search quickly through a chapter or track, and use the skip function to jump to the next selection.

Searching through a Chapter or Track

During play, press the **SEARCH** (◀◀ or ▶▶) button on the remote control for more than 1 second.

DVD	2X, 4X, 64X, 128X
VCD	4X, 8X
CD	2X, 4X, 8X

Note

- The speed marked in this function may be different from the actual speed of playback.
- No sound is hearing during search mode (Except CD).

Skipping Tracks

During play, press the **SKIP** (⏮ or ⏭) button.

- When playing a DVD, if you press the SKIP (⏭) button, it moves to the next chapter. If you press the SKIP (⏮) button, it moves to the beginning of the chapter. One more press makes it move to the beginning of the previous chapter.
- When playing a VCD 2.0 in Menu Off mode, or a VCD 1.1 or a CD, if you press the SKIP (⏭) button, it moves to the next track. If you press the SKIP (⏮) button, it moves to the beginning of the track. One more press makes it move to the beginning of the previous track.
- If a track exceeds 15 minutes when playing a VCD and you press the ⏭ button, it moves forward 5minutes. If you press the ⏮ button, it moves backward 5 minutes.

Note

Only Menu Off is available for VCD2.0. Each press of the DISC MENU button toggles between Menu On and Menu Off.

Using the Display Function

When Playing a DVD/VCD/MPEG4

1. During play, press the **INFO** button on the remote control.
2. Press the ▲/▼ buttons to select the desired item.
   - Only Menu Off is available for VCD2.0. Each press of the DISC MENU button toggles between Menu On and Menu Off.
3. Press the ◀/▶ buttons to make the desired setup and then press the **ENTER** button.
   - You may use the number buttons of the remote control to directly access a title, chapter or to start the playback from the desired time.
4. To make the screen disappear, press the **CANCEL** button.

Note

Title	To access the desired title when there is more than one in the disc. For example, if there is more than one movie on a DVD, each movie will be identified.
Chapter Track	Most DVD discs are recorded in chapters so that you can quickly find a specific passage (similar to tracks on an VCD).
Time	Allows playback of the film from a desired time. You must enter the starting time as a reference.The time search function does not operate on some disc.
Audio	Refers to the language of the film soundtrack. In the example, the soundtrack is played in English 5.1CH. A DVD disc can have up to eight different soundtracks.
Subtitle	Refers to the subtitle languages available in the disc. You will be able to choose the subtitle languages or, if you prefer, turn them off from the screen. A DVD disc can have up to 32 different subtitles.
Shortcut	To access the desired Bookmark or Angle function. Some DVD discs are have more angle function from any picture. Bookmark function make you easily and quickly to find a track or chapter from DVD or VCD (Menu Off). The EZ View function is use for changing the aspect ratio in DVD.

Using the Disc and Title Menu

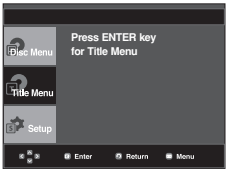
Using the Disc Menu

1. During Stop mode, press the **MENU** button on the remote control.
2. Press the ▲/▼ buttons to select **Disc Menu**, then press the ► or **ENTER** button.

Note
- Depending on a disc, the Disc Menu may not work.
- You can also use the Disc Menu, using the DISC MENU button on the remote control.
- Only Menu Off is available for VCD2.0. Each press of the DISC MENU button toggles between Menu On and Menu Off.

Using the Title Menu

1. During stop mode, press the **MENU** button on the remote control.
2. Press the ▲/▼ buttons to select **Title Menu**, then press the ► or **ENTER** button.



Note
- Depending on a disc, the Title Menu may not work.
- Title Menu will only be displayed if there are at least two titles in the disc.

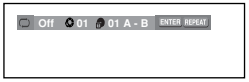
Repeat Play

Repeat the current track, chapter, title, a chosen section (A-B), or all of the disc.

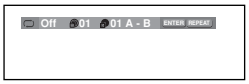
When playing a DVD/VCD

1. Press the **REPEAT** button on the remote control. Repeat screen appears.
2. Press the ◄/► buttons to select **Chapter**, **Title** or **A-B**, then press the **ENTER** button.
   - DVD repeats play by chapter or title, VCD repeat play by disc or track.
   - Chapter ( ): repeats the chapter that is playing.
   - Title ( ): repeats the title that is playing.
   - Disc ( ): repeats the disc that is playing.
   - Track ( ): repeats the track that is playing.
   - A-B: repeats a segment of the disc that you select.

DVD



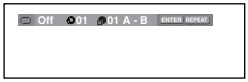
VCD



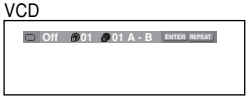
Using the A-B Repeat function

1. Press the **REPEAT** button on the remote control.
2. Press the ◄/► buttons to Select **A-B** button.
3. Press the **ENTER** button at the point where you want repeat play to start (A). **B** is automatically highligh ted.
4. Press the **ENTER** button at the point where you want the repeat play to stop (B).
   - To return to normal play, press the **CANCEL** button.
5. To return to normal play, press **REPEAT** button again, then press the ◄/► buttons to select **Off** and press **ENTER** button.

DVD



VCD



Note
- A-B REPEAT does not allow you to set point (B) until at least 5 seconds of playback time has elapsed after point (A) has been set.
- Depending on a disc, the Repeat function may not work.
- Only Menu Off is available for VCD2.0. Each press of the DISC MENU button toggles between Menu On and Menu Off.

Slow Play

This feature allows you slowly to repeat scenes containing sports, dancing, musical instruments being played etc., so you can study them more closely.

When playing a DVD

1. During play, press the **PLAY/PAUSE (►II)** button.
2. Press and hold the **SEARCH (◄◄ / ►►)** button to choose the play speed between 1/8, 1/4 and 1/2 of normal during PAUSE or STEP mode.

ADVANCED FUNCTIONS

Adjusting the Aspect Ratio (EZ View)

To play back using aspect ratio (DVD)

1. During play, press the **INFO** button on the remote control.
2. Press the ▲/▼ buttons to select **Shortcut**.
3. Press the ◄/► buttons to select **EZ View**, then press **ENTER** button.

- The screen size changes when the ► button is pressed repeatedly.
- The screen zoom mode operates differently depending on the screen setting in the Display Setup menu.
- To ensure correct operation of the **EZ VIEW** button, you should set the correct aspect ratio in the Display Setup menu. (See pages 29 to 30).

If you are using a 16:9 TV

For 16:9 aspect ratio discs

- **WIDE SCREEN**
  Displays the content of the DVD title in 16:9 aspect ratio.
- **SCREEN FIT**
  The top and bottom portions of the screen are cut off. When playing a 2.35:1 aspect ratio disc, the black bars at the top and bottom of the screen will disappear. The picture will look vertically stretched. (Depending on a type of disc, the black bars may not disappear completely.)
- **ZOOM FIT**
  The top, bottom, left and right of the screen are cut off and the central portion of the screen is enlarge

For 4:3 aspect ratio discs

- **Normal Wide**
  Displays the content of the DVD title in 16:9 aspect ratio. The picture will look horizontally stretched.
- **SCREEN FIT**
  The top and bottom portions of the screen are cut off and the full screen appears.
  The picture will look vertically stretched.
- **ZOOM FIT**
  The top, bottom, left and right portions of the screen are cut off and the central portion of the screen is enlarged.
- **Vertical Fit**
  When a 4:3 DVD is viewed on a 16:9 TV, black bars will appear at the left and right of the screen in order to prevent the picture from looking horizontally stretched.

If you are using a 4:3 TV

For 16:9 aspect ratio discs

- 4:3 Letter Box
Displays the content of the DVD title in 16:9 aspect ratio. The black bars will appear at the top and bottom of the screen.
- 4:3 Pan&Scan
The left and right portions of the screen are cut off and the central portion of the 16:9 screen is displayed.
- SCREEN FIT
The top and bottom portions of the screen are cut off and a full screen appears. The picture will look vertically stretched.
- ZOOM FIT
The top, bottom, left and right of the screen are cut off and the central portion of the screen is enlarged.

For 4:3 aspect ratio discs

- Normal Screen
Displays the content of the DVD title in 4:3 aspect ratio.
- SCREEN FIT
The top and bottom portions of the screen are cut off and the full screen appears. The picture will look vertically stretched.
- ZOOM FIT
The top, bottom, left and right portions of the screen are cut off and the central portion of the screen is enlarged.

Note
This function may behave differently depending on the type of disc.

Selecting the Audio Language

You can select a desired audio language quickly and easily with the AUDIO button.

Using the AUDIO button

1. Press the **AUDIO** button. The Audio changes when the button is pressed repeatedly.
   The audio languages are represented by abbreviations.

DVD

VCD

When playing a VCD, you can select among **Stereo**, **Left** or **Right.**

Press Audio button at remote control repeatly to select the desired audio on MPEG4 then press the **ENTER**.

MPEG4

2. To remove the **AUDIO** icon, press the **CANCEL** or **RETURN** button.

Note
- This function depends on audio languages are encoded on the disc and may not work.
- A DVD disc can contain up to 8 audio languages.
- To have the same audio language come up whenever you play a DVD;
  Refer to “Using the Audio Language” on page 27.

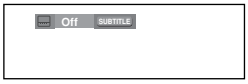
Selecting the Subtitle Language

You can select a desired subtitle quickly and easily with the SUBTITLE button.

Using the SUBTITLE button (DVD)

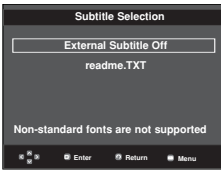
1. Press the **SUBTITLE** button. The subtitle languages are represented by abbreviations. The subtitle changes when the button is pressed repeatedly.

DVD



MPEG4

External Subtitle option will appear, depends on the DivX disc.



Press **SUBTITLE** button at remocon repeatly to select the desired subtitle language on MPEG4 then press the **ENTER**.

MPEG4

2. To remove the **SUBTITLE** icon, press the **CANCEL** or **RETURN** button.

Note
- You have to change the desired subtitle in the Disc Menu, according to discs. Press the DISC MENU button.
- This function depends on what subtitles are encoded on the disc and may not work on all DVDs.
- A DVD disc can contain up to 32 subtitle languages.
- To have the same subtitle language come up whenever you play a DVD; Refer to “Using the Subtitle Language” on page 27.

Changing the Camera Angle

When a DVD contains multiple angles of a particular scene, you can use the ANGLE function.

Using the ANGLE Function (DVD).

If the disc contains multiple angles, the ANGLE appears on the screen.

1. During play, press the **INFO** button on the remote control.
2. Press the ▲/▼ buttons to select **Shortcut**.
3. Press the ◄/► buttons to select **Angle**, then press **ENTER** button.

4. Press the ◄/► buttons on the remote control to select the desired angle.

English

Using the Bookmark Function

This feature lets you bookmark sections of a DVD or VCD (Menu Off mode) so you can quickly find them at a later time.

Using the Bookmark Function (DVD/VCD)

1. During play, press the **INFO** button on the remote control.
2. Press the ▲/▼ buttons to select **Shortcut**.

DVD

VCD

3. Press the ◄/► buttons to select **Bookmark**(except VCD), then press the **ENTER** button.
4. When you reach the scene you want to mark, press the **ENTER** button. Up to three scenes may be marked at a time.

Note
- Only Menu Off is available for VCD2.0. Each press of the DISC MENU button toggles between Menu On and Menu Off.
- Depending on a disc, the Bookmark function may not work.

Recalling a Marked Scene

1~3. The first 1~3 steps are the same as those for "Using the Bookmark Function" on page 20.

4. Press the ◄/► buttons to select a marked scene.

5. Press the **PLAY/PAUSE** (▶II) button to skip to the marked scene.

Clearing a Bookmark

1~3. The first 1~3 steps are the same as those for "Using the Bookmark Function" on page 20.

4. Press the ◄/► buttons to select the bookmark number you want to delete.
5. Press the **CANCEL** button to delete a bookmark number.

Using the Zoom Function

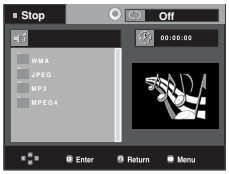
Using the Zoom Function (DVD/VCD)

1. During play or pause mode, press the **ZOOM** button on the remote control, press the **ENTER** button.
2. Press the ▲/▼/◄/► buttons to select **the part of the screen you want to zoom in on**.
   - During DVD play, press ENTER to zoom in 2X/4X/2X/Normal in order.
   - During VCD play, press ENTER to zoom in 2X/4X/2X/Normal in order.

Clips Menu for MP3/WMA/JPEG/CD Audio/MPEG4

CD Audio or discs with MP3/WMA/JPEG/MPEG4 contain individual songs and/or pictures that can be organized into folders as shown below. They are similar to how you use your computer to put files into different folders.

Open the disc tray.
Place the disc on the tray.
Close the tray.
The tray closes and this screen displays.



- : Name of currently playing file.
- : Current Playback Time.
- : Current Playback Mode : There are four modes. They can be selected in order by pressing the **REPEAT** button.
  - Off: Normal Playback
  - Track: Repeats the current track.
  - Folder: Repeats the current folder.
  - Random: Files in the disc will be played in random order.
- : MP3 file icon. - : Folder icon.
- : WMA file icon. - : Current Folder icon.
- : JPEG file icon.
- : AVI file icon.
- : CD Audio file icon.

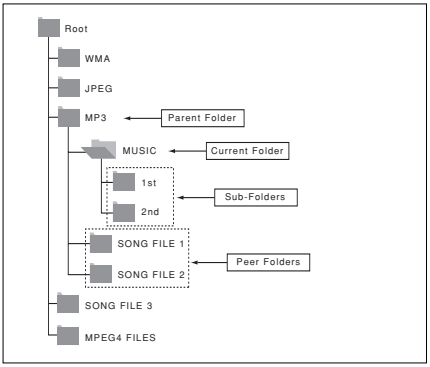
Folder Selection

The folder can be selected in Stop or Play mode.

- To select the Parent Folder
Press the **RETURN** button to go to parent folder, or press the ▲/▼ buttons to select ".." and press **ENTER** to go to the parent folder.

- To select the Peer Folder
Press the ◄/► buttons to highlight left window. Press the ▲/▼ buttons to select the desired folder, then press **ENTER**.

- To select the Sub-Folder
Press the ◄/► buttons to highlight right window. Press the ▲/▼ buttons to select the desired folder, then press **ENTER**.



MP3 /WMA /CD Audio Playback

1. Open the disc tray. Place the disc on the tray. Close the tray.
   - Only one kind of file is played back when a disc or a folder contains both MP3 and WMA files.
2. Press the ▲/▼ or ◄/► buttons to select a song file. Press **ENTER** to begin playback of the song file.

Repeat/Random playback

Press the **REPEAT** button to change the playback mode. There are four modes, such as **Off**, **Track**, **Folder** and **Random**.
- Off: Normal Playback
- Track: Repeats the current song file.
- Folder: Repeats the song files which have the same extension in the current folder.
- Random: Song files which have the same extension will be played in random order.

To resume normal play, press the **CANCEL** button.

CD-R MP3/WMA file

When you record MP3 or WMA files on CD-R, please refer to the following.

- Your MP3 or WMA files should be ISO 9660 or JOLIET format.

ISO 9660 format and Joliet MP3 or WMA files are compatible with Microsoft's DOS and Windows, and with Apple's Mac. This format is the most widely used.

- When naming your MP3 or WMA files, do not exceed 8 characters, and enter ".mp3, .wma" as the file extension.
General name format : Title.mp3. or Title.wma. When composing your title, make sure that you use 8 characters or less, have no spaces in the name, and avoid the use of special characters including: (.,/,\,=,+).

- Use a decompression transfer rate of at least 128 Kbps when recording MP3 files.
Sound quality with MP3 files basically depends on the rate of compression/decompression you choose. Getting CD audio sound requires an analog/digital sampling rate, that is conversion to MP3 format, of at least 128 Kbps and up to 160 Kbps. However, choosing higher rates, like 192 Kbps or more, only rarely give better sound quality. Conversely, files with decompression rates below 128 Kbps will not be played properly.

- Use a decompression transfer rate of at least 64Kbps when recording WMA files.
Sound quality with WMA files basically depends on the rate of compression/decompression you choose.
Getting CD audio sound requires an analog/digital sampling rate, that is conversion to WMA format, of at least 64Kbps and up to 192Kbps. Conversely, files with decompression rates below 64Kbps or over 192Kbps will not be played properly.

- Do not try recording copyright protected MP3 files.
Certain "secured" files are encrypted and code protected to prevent illegal copying. These files are of the following types: Windows Media™ (registered trade mark of Microsoft Inc) and SDMI™ (registered trade mark of The SDMI Foundation). You cannot copy such files.

- Important:
The above recommendations cannot be taken as a guarantee that the DVD player will play MP3 recordings, or as an assurance of sound quality. You should note that certain technologies and methods for MP3 file recording on CD-Rs prevent optimal playback of these files on your DVD player (degraded sound quality and in some cases, inability of the player to read the files).

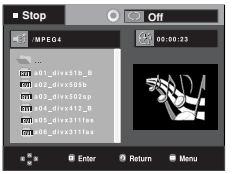
- This unit can play a maximum of 500 files and 500 folders per disc.

MPEG4 Playback

MPEG4 Play Function

AVI files are used to contain the audio and video data. Only AVI format files with the ".avi" extensions can be played.

1. Open the disc tray. Place the disc on the tray. Close the tray.
2. Press the ▲/▼ or ◀/▶ buttons to select an avi file (DivX/XviD), then press the **ENTER** button.



Repeat Playback

Press the **REPEAT** button to change playback mode. There are 3 modes, such as **Off**, **Folder** and **Title**.

- Folder : Repeats the AVI files which have the same extension in the current folder.
- Title : repeats the title that is playing.

MPEG4 Function Description

Function	Description	Reference page
Skip (⏮ or ⏭)	During play, press the ⏮ or ⏭ button, it moves forward or backward 5 minutes.	-
Search (◀◀ or ▶▶)	During play, press the SEARCH (◀◀ or ▶▶) button and press again to search at a faster speed. Allows you to search at a faster speed in an AVI file. (2X, 4X, 8X)	-
Slow Motion Play	Allows you to search at a slower speed in an AVI file. (1/8X, 1/4X, 1/2X)	P 15
Step Motion Play	Each time the STEP button is pressed, a new frame will appear.	P 15
ZOOM	2X/4X/2X/Normal in order	P 20

- These functions may not work depending on MPEG4 file.

CD-R AVI file

This unit can play the following video compression formats within the AVI file format:

- DivX 3.11 contents
- DivX 4 contents (Based on MPEG4 Simple Profile)
- DivX 5 contents (MPEG4 simple profile plus additional features such as bi-directional frames. Qpel and GMC are also supported.)
- XviD MPEG4 compliant Contents.

This unit supports all resolutions up to maximum below.

DivX3.11 & DivX4 & XviD	DivX5
Bitrate may fluctuate: Device may skip decoding the high bitrate portions and begin decoding again when Bitrate returns to normal.	720 x 480 @30fps 720 x 576 @25fps : Maximum bitrate : 4Mbps

Note

- Some MPEG4 files created on a personal computer may not be play back.
  That is why Codec Type, Version and Higher resolution over specification is not supported.
- This unit supports CD-R/RW written in MPEG4 in accordance with the “ISO9660 format”.

Playing Media Files Using the USB Host feature

You can enjoy the media files such as pictures, movies and tunes saved in an MP3 player, USB memory or digital camera in high audio by connecting the storage device to the USB port of the DVD Player.

Using the USB HOST feature

1. Connect the USB device to the USB host on the front of the player.
2. If the USB have any partition, press the ▲/▼ button to select part of partition from USB which you want to play, then press the **ENTER** button.

3. Press the ▲/▼ or ◀/▶ buttons to select a file in the USB. then press **ENTER** to open or playing the file.

Note

- Each time the USB button on the remote control is pressed, a frame of the USB device selection will appear.
- “**USB**” appears on the display screen.
- USB MENU screen appears on the TV screen and the saved file is played.

Safe USB Removal

To prevent damage to the memory stored in the USB device, perform safe removal before disconnecting the USB cable.

- Press the **STOP** (■) button.
- Remove the USB cable.

Skip Forward/Back

During playback, press the **(⏮ / ⏭)** button.

- When there is more than one file, when you press the ⏭ button, the next file is selected.
- When there is more than one file, when you press the ⏮ button, the previous file is selected.

Fast playback

To play back the disc at a faster speed, press **(◀◀ / ▶▶)** during playback.

- Each time you press either button, the playback speed will change as follows:
  2x → 4x → 8x.

Compatible Devices

1. USB devices that support USB Mass Storage v1.0.
   (USB devices that operate as a removable disk in Windows (2000 or later) without additional driver installation.)
2. MP3 Player: HDD and flash type MP3 player.
3. Digital camera: Cameras that support USB Mass Storage v1.0.
   - Cameras that operate as a removable disk in Windows (2000 or later) without additional driver installation.
4. USB HDD and USB Flash Drive: Devices that support USB2.0 or USB1.1.
   - You may experience a difference in playback quality when you connect a USB1.1 device.
   - For a USB HDD, make sure to connect an auxiliary power cord to the USB HDD for proper operation.
5. USB card Reader: One slot USB card reader and Multi slot USB card reader
   - Depending on the manufacturer. the USB card reader may not be supported.
   - If you install multiple memory devices into a multi card reader, you may experience problems.
6. If you use a USB extension cable, the USB device might not be recognized.

- **Supported Formats**

	File Name	File Extension	Bit Rate	Version	Pixel	Sampling Frequency
Still Picture	JPG	.JPG .JPEG	–	–	640*480	–
Music	MP3	.MP3	80~384kbps	–	–	44.1kHz
	WMA	.WMA	56~128kbps	V8	–	44.1kHz
Movie	VCD	.MPG.MPEG	1.5Mbps	VCD1.1,VCD2.0	320*480	44.1KHz
	DivX	.AVI,.ASF	4Mbps	DivX3.11~DivX5.1,Xvid	720*480	44.1KHz~48KHz

- CBI (Control/Bulk/Interrupt) is not supported.
- Digital Cameras that use PTP protocol or require additional program installation when connected to a PC are not supported.
- A device using NTFS file system is not supported. (Only FAT 16/32 (File Allocation Table 16/32) file system is supported.)
- Some MP3 players, when connected to this product,may not operate depending on the sector size of their file system.
- The USB HOST function is not supported if a product that transfers media files by its manufacturer-specific program is connected.
- Does not operate with Janus enabled MTP(Media Transfer Protocol) devices.
- **The USB host function of this product does not support all USB devices.**
  For information on the supported devices, see page 34.

CD Ripping

This feature lets you to copy audio files from disc to USB device into MP3 format.

Open the disc tray.
Place a Audio CD (CD DA) on the tray, then close the tray.

Connect the USB device to the USB host on the front of the player.
This screen will displayed.

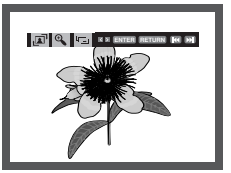
1. **To Select DISC**
   With the unit in Stop mode, press the ▲/▼ buttons to select **DISC.**
   To Select DEV (storage media device)
   Press the ► button to select **DEV** (storage media device) menu, then press the **ENTER** button.
   Press the ▲/▼ buttons to select USB, then press the **ENTER** button.

2. Press the ▲/▼ buttons to select **SELECT**, then press the **ENTER** button to marked all files to be copying.
   - To unmarked copying all files, press the **ENTER** button once again (**UNSELECT** Menu).
   - If you want to marked several files to be copying, press the ◄ button, then press the **ENTER** button on the selected file.
3. Press the ▲/▼ buttons to select **START**, then press the **ENTER** button.
   File copy begins.
   - To cancel the copying in progress, press the **CANCEL** button.

Note
- When the CD ripping is being processed the player will automatic in play mode.
- Only Audio CD (CD DA) discs that can be ripping.

Picture CD Playback

1. Select the desired folder.
2. Press the ▲/▼ buttons to select a Picture file in the clips menu and then press the **ENTER** button.
3. Press the **INFO** button on the remote control to select the menu you want to view and then press the **ENTER** button.



Note
- If no buttons on the remote control are pressed for 10 seconds, the menu will disappear.
- Press the STOP button to return to the clips menu.
- When playing a Kodak Picture CD, the unit displays the Photo directly, not the clips menu.

Rotation

: Each time the **ENTER** button is pressed, the picture rotates 90 degrees clockwise.

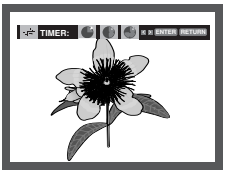
Zoom

: Press the ▲/▼ buttons to select the part of the screen you want to zoom in on.
Press the **ENTER** button. Each time the **ENTER** button is pressed, the picture is enlarged up to 2X.

Slide Show

- : The unit enters slide show mode.
- Before beginning the Slide Show, the picture interval must be set.

- : When this icon is selected and **ENTER** is pressed, the pictures change automatically with about a 6 second interval.
- : The pictures change automatically with about a 12 second interval.
- : The pictures change automatically with about a 18 second interval.



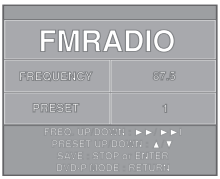
Note
- Depending on a file size, the amount of time between each picture may be different from the manual.
- If you don't press any button, the slide show will start automatically in about 10 seconds by default.

CD-R JPEG Discs

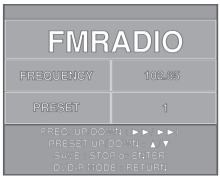
- Only files with the ".jpg" and ".JPG" extensions can be played.
- If the disc is not closed, it will take longer to start playing and not all of the recorded files may be played.
- Only CD-R discs with JPEG files in ISO 9660 or Joliet format can be played.
- The name of the JPEG file may not be longer than 8 characters and should contain no blank spaces or special characters (. / = +).
- Only a consecutively written multi-session disc can be played. If there is a blank segment in the multi-session disc, the disc can be played only up to the blank segment.
- A maximum of 500 images can be stored on a single CD.
- Kodak Picture CDs are recommended.
- When playing a Kodak Picture CD, only the JPEG files in the pictures folder can be played.
- When playing a Kodak Picture CD, only the JPEG files in the pictures folder can be played.
- Kodak Picture CD: The JPEG files in the pictures folder can be played automatically.
- Konica Picture CD: If you want to see the Picture, select the JPEG files in the clips menu.
- Fuji Picture CD: If you want to see the Picture, select the JPEG files in the clips menu.
- QSS Picture CD: The unit may not play QSS Picture CD.
- If the number of files in 1 Disc is over 500, only 500 JPEG files can be played.
- If the number of folders in 1 Disc is over 500, only JPEG files in 500 folders can be played

FM Radio

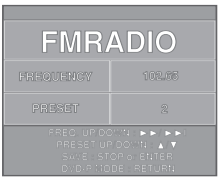
This feature lets you to listen FM radio from this DVD player**.** Anytime we want to display FM radio menu, just press **FMRADIO** button on the remote control.



1. To Scan the frequency
   - With the unit in Stop mode, Press the **FMRADIO** button on the remote control.
   - Press the ▶▶/ ▶▶| button to scan the frequency manually.
   - Press the |◀◀ /◀◀ button to scan the frequency automatically.
     It will seek automatically for an available frequency within range.



2. To change the preset value
   - With the unit in Stop mode, Press the **FMRADIO** button on the remote control.
   - Press **PRESET** ▲/▼ buttons.
     The preset number are selected.



3. To save the frequency value as a preset mode.
   - Please do 1-2 step above before saving the frequency.
   - Press **STOP** or **ENTER** button to save frequency value as the preset number.
     After press **STOP** or **ENTER** button, the value on the preset will be blinking for arround 5 second.
   - Press **STOP** or **ENTER** again to save the frequency.

To return from FM radio menu, just press **RETURN** button and if there is a disk on the tray, it will play automatically.

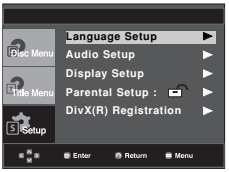
Note
FM radio can be accessed when the player no disc and the unit in stop mode.

CHANGING SETUP MENU

Using the Setup Menu

The Setup menu lets you customize your DVD player by allowing you to select various language preferences, set up a parental level, even adjust the player to the type of television screen you have.

1. With the unit in Stop mode, press the **MENU** button on the remote control. Use the ▲/▼ buttons to select Setup, then press the ► or **ENTER** button.



❶ Language Setup: Setup of the Language.
❷ Audio Setup : Setup of the Audio Options.
❸ Display Setup : Setup of the Display Options. Use to select which type of screen you want to watch and several display options.
❹ Parental Setup : Setup of the Parental Level. Allows users to set the level necessary to prevent children from viewing unsuitable movies such as those with violence, adult subject matter, etc.
❺ DivX(R) Registration : Please use the Registration code to register this player with the DivX(R) Video On Demand format. To learn more go to www.divx.com/vod.

2. Press the ▲/▼ buttons to access the different features. Press the ► or **ENTER** button to access the sub features.
3. To make the setup screen disappear after setting up, press the **MENU** button again.

Note
Depending on the disc, some Setup Menu selections may not work.

Setting Up the Language Features

If you set the player menu, disc menu, audio and subtitle language in advance, they will come up automatically every time you watch a movie.

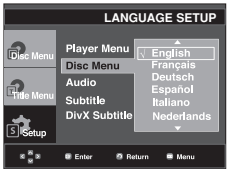
Using the Player Menu Language

1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲/▼ buttons to select **Setup**, then press the ► or **ENTER** button.
3. Press the ▲/▼ buttons to select **Language Setup**, then press the ► or **ENTER** button.
4. Press the ▲/▼ buttons to select **Player Menu**, then press the ► or **ENTER** button.
5. Press the ▲/▼ buttons to select the desired language, then press the ► or **ENTER** button.
   - The language is selected and the screen returns to Language Setup menu.
   - To make the setup menu disappear, press the MENU button.

Using the Disc Menu Language

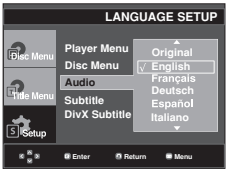
This function changes the text language only on the disc menu screens.

1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲/▼ buttons to select **Setup**, then press the ► or **ENTER** button.
3. Press the ▲/▼ buttons to select **Language Setup**, then press the ► or **ENTER** button.
4. Press the ▲/▼ buttons to select **Disc Menu**, then press the ► or **ENTER** button.
5. Press the ▲/▼ buttons to select the desired language, then press the ► or **ENTER** button.
   - If the selected language is not recorded on the disc, the original pre-recorded language is selected.
   - The language is selected and the screen returns to Language Setup menu.
   - To make the setup menu disappear, press the MENU button.



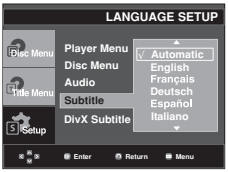
Using the Audio Language

1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲/▼ buttons to select **Setup**, then press the ► or **ENTER** button.
3. Press the ▲/▼ buttons to select **Language Setup**, then press the ► or **ENTER** button.
4. Press the ▲/▼ buttons to select **Audio**, then press the ► or **ENTER** button.
5. Press the ▲/▼ buttons to select the desired language, then press the ► or **ENTER** button.
   - Select “Original” if you want the default soundtrack language to be the original language the disc is recorded in.
   - If the selected language is not recorded on the disc, the original pre-recorded language is selected.
   - The language is selected and the screen returns to Language Setup menu.
   - To make the setup menu disappear, press the MENU button.



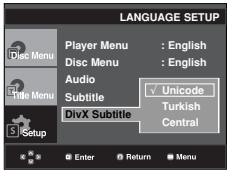
Using the Subtitle Language

1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲/▼ buttons to select **Setup**, then press the ► or **ENTER** button.
3. Press the ▲/▼ buttons to select **Language Setup**, then press the ► or **ENTER** button.
4. Press the ▲/▼ buttons to select **Subtitle**, then press the ► or **ENTER** button.
5. Press the ▲/▼ buttons to select the desired language, then press the ► or **ENTER** button.
   - Select “Automatic” if you want the subtitle language to be the same as the language selected as the audio language.
   - Some discs may not contain the language you select as your initial language; in that case the disc will use its original language setting.
   - The language is selected and the screen returns to setup menu.
   - To make the setup menu disappear, press the MENU button.



Using the DivX Subtitle Language

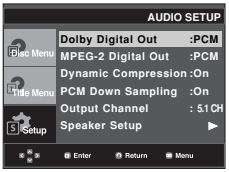
1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲/▼ buttons to select **Setup**, then press the ► or **ENTER** button.
3. Press the ▲/▼ buttons to select **Language Setup**, then press the ► or **ENTER** button.
4. Press the ▲/▼ buttons to select **DivX Subtitle**, then press the ► or **ENTER** button.
5. Press the ▲/▼ buttons to select the desired language, then press the ► or **ENTER** button.
   - The language is selected and the screen returns to Language Setup menu.
   - To make the setup menu disappear, press the MENU button.



Setting Up the Audio Options

Audio Options allows you to setup the audio device and sound status settings depending on the audio system in use.

1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲/▼ buttons to select **Setup**, then press the ► or **ENTER** button.
3. Press the ▲/▼ buttons to select **Audio Setup**, then press the ► or **ENTER** button.
4. Press the ▲/▼ buttons to select the desired item, then press the ► or **ENTER** button.



❶ Dolby Digital Out
- PCM : Converts to PCM(2CH) audio.
- Bitstream : Outputs Dolby Digital via the digital output. Select Bitstream when connecting to a Dolby Digital Decoder.

❷ MPEG-2 Digital Out
- PCM : Converts to PCM(2CH) audio.
- Bitstream : Converts to MPEG-2 Digital Bitstream (5.1CH or 8CH). Select Bitstream when using the Digital Audio Output.

❸ Dynamic Compression
- On : To select dynamic compression.
- Off : To select the standard range.

❹ PCM Down Sampling
- On : Select this when the Amplifier connected to the player is not 96KHz compatible. In this case, the 96KHz signals will be down converted to 48KHZ.
- Off : Select this when the Amplifier connected to the player is 96KHz compatible. In this case, all signals will be output without any changes.

Note

Even when PCM Down sampling is Off
- Some discs will only output down sampled audio through the digital outputs.

❺ Output Channel
- 2Ch : Select this when using 2 channel connection only.
- 5.1 Ch : Select this when using 5.1 Channel connection.

Note

To make The Speaker Setup menu appear, select output channel to 5.1 Ch.
To make the Setup menu disappear, press the MENU button.

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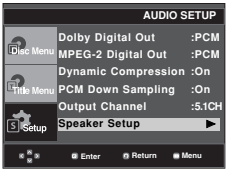
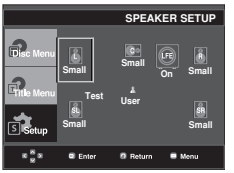
“DTS” and “DTS Digital Out” are trademarks of Digital Theater Systems, Inc.

Surround Sound Speaker Setup

1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲/▼ buttons to select **Setup**, then press the ► or **ENTER** button.
3. Press the ▲/▼ buttons to select **Audio Setup**, then press the ► or **ENTER** button.
4. Press the ▲/▼ buttons to select **Speaker Setup**, then press the ► or **ENTER** button.
5. Press the ▲/▼/◄/► buttons to select the desired item, then press the **ENTER** button to set the speaker.





Note

To make the setup menu disappear, press the MENU button.

The default settings : FRONT L, R (Small), CENTER (Small), SURROUND (Small).
Select the size of the speakers to be connected.

❶ Front (FL, FR)
- Large: Normally select this.
- Small: When the sound distorts or the suround sound effects are difficult to hear, select this. This activates the Dolby Digital bass redirec tion circuitry and outputs the bass frequencies of the speaker from the subwoofer.

❷ Center
- None: If you do not connect a center speaker, select this.
- Large: Normally select this.
- Small: When the sound distorts, select this. This activates the Dolby Digital bass redirec-tion circuitry and outputs the bass frequencies of the center speaker from other speakers.

❸ Surround (SL, SR)
- None: If you do not connect a center speaker, select this.
- Large (Rear/Side): Normally select either of these according to the rear speaker’s position.
- Small (Rear/Side): When the sound ditorts or the surround sound effects are dificult to hear, select either of these according to the rear speaker’s position. This activates the Dolby Digital bass rediretion circuitry and outputs the bass frequencies of the rear speaker from other speakers.

Setting up Test

The test output signals come clockwise starting from the Front Speaker(L).
Adjust Channel Balance so that speakers output equally in your room.
FRONT(L) → CENTER → SUBWOOFER → FRONT(R) → SURROUND(R) → SURROUND(L)

Note

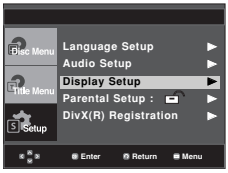
To make the Setup menu disappear or return to menu screen during set up, press RETURN button.

- The subwoofer test output signal is lower than the other speakers.
- The MPEG Multichannel logo is a trademark registered by PHILIPS Corporation.
- If you set Front (L, R) “Small”, LFE (Subwoofer) is set “On” automatically.

Setting Up the Display Options

Display options enable you to set various video functions of the player.

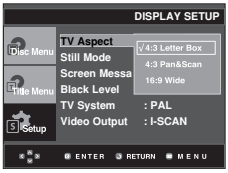
1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲/▼ buttons to select **Setup**, then press the ► or **ENTER** button.
3. Press the ▲/▼ buttons to select **Display Setup**, then press the ► or **ENTER** button.
4. Press the ▲/▼ buttons to select the desired item, then press the ► or **ENTER** button.



❶ TV Aspect

Depending on a type of television you have, you may want to adjust the screen setting (aspect ratio).

- 4:3 Letter Box : Select when you want to see the total 16:9 ratio screen DVD supplies, even though you have a TV with a 4:3 ratio screen. Black bars will appear at the top and bottom of the screen.
- 4:3 Pan&Scan : Select this for conventional size TVs when you want to see the central portion of the 16:9 screen. (Extreme left and right side of movie picture will be cut off.)
- 16:9 Wide : You can view the full 16:9 picture on your wide screen TV.



❷ Still Mode

These options will help prevent picture shake in still mode and display small text clearer.

- Auto : When selecting Auto, Field/Frame mode will be automatically converted.
- Field : Select this feature when the screen shakes in the Auto mode.
- Frame : Select this feature when you want to see small letters more clearly in the Auto mode.

❸ Screen Messages

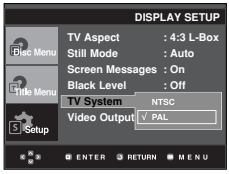
Use to turn on-screen messages On or Off.

❹ Black Level

Adjusts the brightness of the screen.(On or Off)
It does not function in Progressive mode.

❺ TV System

- NTSC : In case of using NTSC disc
  - If your TV system only has PAL-Video input, you must choose “PAL”. When you choose “PAL”, Interlace output format is PAL 60 Hz output.
  - If your TV system only has NTSC, input you must choose “NTSC ”.
- PAL : In case of using PAL disc
  - If your TV system only has NTSC-Video input, you must choose “NTSC”.
  - If your TV system only has PAL input, you must choose “PAL ”.

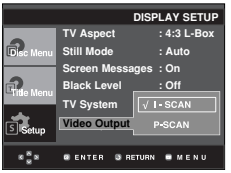


❻ Video Output

Select Video Output.

- COMPONENT(I-SCAN) : Select when you want to use Component Interlace (525i) Out.
- COMPONENT(P-SCAN) : Select when you want to use Component Progressive (525p) Out.
  - If you press the VIDEO SEL. button, Video output mode is changed in regular sequence in no disc mode.
    (COMPONENT (I-SCAN) → COMPONENT(P-SCAN))

- If the Yes/No selection in the Display Setup sub Menu is not made within 10 seconds, the screen returns to the previous menu.



- **Consult your TV User's Manual to find out if your TV supports Progressive Scan. If Progressive Scan is supported, follow the TV User's Manual regarding Progressive Scan settings in the TV's menu system.**
- **If Video Output is set incorrectly, the screen may be blocked.**
- **When the resolution is changed during play-back, it may take a few seconds for a normal image to appear.**

Setting Up the Parental Control

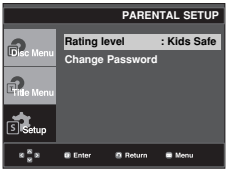
The Parental Control function works in conjunction with DVDs that have been assigned a rating, which helps you control the types of DVDs that your family watches. There are up to 8 rating levels on a disc.

Setting Up the Rating Level

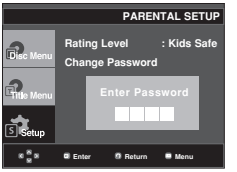
1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲/▼ buttons to select **Setup**, then press the ► or **ENTER** button.

3. Press the ▲/▼ buttons to select **Parental Setup**, then press the ► or **ENTER** button.

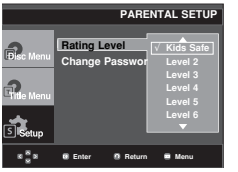
4. Press the ▲/▼ buttons to select **Rating Level**, then press the ► or **ENTER** button.



5. Enter your password.
   - By default, password is set to 0000.
   - Please change password to other than 0000 to activate parental control function.



6. Press the ▲/▼ buttons to select the Rating Level you want, then press the ► or **ENTER** button.
   e.g) Setting up in **Kids Safe**.

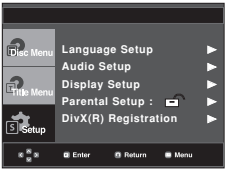


Note

- To make the setup menu disappear, press the MENU button. For example, if you select up to Level 6, discs that contain Level 7,8 will not play.

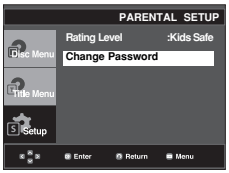
Changing the Password

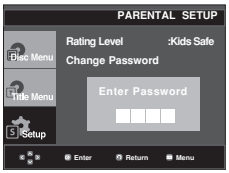
1. With the unit in Stop mode, press the **MENU** button.
2. Press the ▲/▼ buttons to select **Setup**, then press the ► or **ENTER** button.

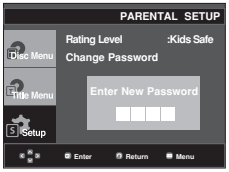


3. Press the ▲/▼ buttons to select **Parental Setup**, then press the ► or **ENTER** button. The Enter Password screen appears. Enter your password.

4. Press the ▲/▼ button to select **Change Password**, then press the ► or **ENTER** button. Enter your password (default password). Enter the new password again.







Note
If you have forgotten your password, see "Forgot Password" in the Troubleshooting Guide.

Firmware upgrade

Introduction

Samsung will often support the software upgrade to improve the performance of this unit to the latest status, through Samsung Internet Site (www.samsung.com).

Because the specially new MPEG4 codec continues and it is appearing. What improvements are made depends on the upgrade software you are using as well as the software that your DVD-player contained before the upgrade.

How to make an upgrade disc

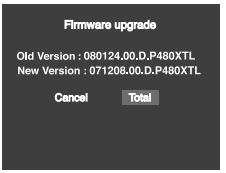
Write the downloaded file onto a blank CD-R or CD-RW disc, using the following settings:

1. You have to download a new file through Download Center of Samsung Internet Site (www.samsung.com).
2. Write the file to Disc using CD-RW of your computer.

Note
- File System CD-ROM ISO Level
- Character set ISO 9660
- Finalized, single session
- Write speed low

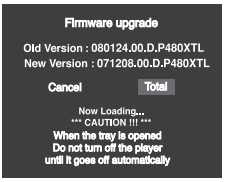
Upgrade procedure

1. Open the disc tray. Place the disc on the tray. Close the tray. The Firmware upgrade screen appears.



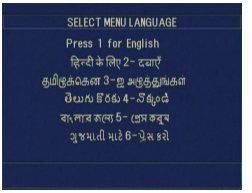
Firware upgrade appears on the display

2. Press the ◄/► buttons to select **Total**, then press the ENTER button.



- In the middle of the writing, the tray will open automatically. After taking out the disc, please wait for about 2 minutes.
- If the unit was succesfully updated, the unit will turn off and on after closing the tray automatically. When the unit turns on, this screen will display.

3. Press the number buttons to select the desired language



Note
- If the “Select Menu Language” doesn’t appear, please contact to “Samsung Service Center”.
- Do not press any button and unplug the power code during upgrade.
- The upgrade procedure may change, refer to the web site (www.samsung.com).

Troubleshooting

Before requesting service (troubleshooting), please check the following.

Problem	Action	Page
No operations can be performed with the remote control.	• Check the batteries in the remote control. They may need replacing. • Operate the remote control at a distance of no more than 20 feet. • Remove batteries and hold down one or more buttons for several minutes to drain the microprocessor inside the remote control to reset it. Reinstall batteries and try to operate the remote control again.	P3
Disc does not play.	• Ensure that the disc is installed with the label side facing up. • Check the region number of the DVD.	P5
5.1 channel sound is not being reproduced.	• 5.1 channel sound is reproduced only when the following conditions are met. : 1) The DVD player is connected with the proper Amplifier 2) The disc is recorded with 5.1 channel sound. • Check whether the disc being played has the "5.1 ch" mark on the outside. • Check if your audio system is connected and working properly. • In a SETUP Menu, is the Audio Output set to Bitstream?	P12-14 P27-29
The ⊘ icon appears on screen.	• The features or action cannot be completed at this time because: 1. The DVD's software restricts it. 2. The DVD's software doesn't support the feature (e.g., angles). 3. The feature is not available at the moment. 4. You've requested a title or chapter number or search time that is out of range.	
Disc Menu doesn't appear.	• Check if the disc has a Menu.	
Play mode differs from the Setup Menu selection.	• Some of the functions selected in the Setup Menu may not work properly if the disc is not encoded with the corresponding function.	P26-31
The screen ratio cannot be changed.	• The Screen Ratio is fixed on your DVDs.	P29-30
No audio.	• Make sure you have selected the correct Digital Output in the Audio Options Menu.	P27-29
The screen is blocked	• Press the ⏭ button for more than 5 seconds under no disc inside. All settings will revert to the factory settings.	P15
Forgot password	• Press the ⏭ button for more than 5 seconds under no disc inside. All settings including the password will revert to the factory settings. Don't use this unless absolutely necessary.	P30
If you experience other problems.	• Go to the contents and find the section of the instruction book that contains the explanations regarding the current problem, and follow the procedure once again. • If the problem still cannot be solved, please contact your nearest authorized service center.	
The picture is noisy or distorted	• Make sure that the disc is not dirty or scratched. • Clean the disc.	P2

English

USB HOST Feature Supported Products

Digital Camera

Product	Company	Type
Finepix-A340	Fuji	Digital Camera
Finepix-F810	Fuji	Digital Camera
Finepix-F610	Fuji	Digital Camera
Finepix-f450	Fuji	Digital Camera
Finepix S7000	Fuji	Digital Camera
Finepix A310	Fuji	Digital Camera
KD-310Z	Konica	Digital Camera
Finecam SL300R	Kyocera	Digital Camera
Finecam SL400R	Kyocera	Digital Camera
Finecam S5R	Kyocera	Digital Camera
Finecam Xt	Kyocera	Digital Camera
Dimage-Z1	Minolta	Digital Camera
Dimage Z1	Minolta	Digital Camera
Dimage X21	Minolta	Digital Camera
Coolpix4200	Nikon	Digital Camera
Coolpix4300	Nikon	Digital Camera
Coolpix 2200	Nikon	Digital Camera
Coolpix 3500	Nikon	Digital Camera
Coolpix 3700	Nikon	Digital Camera
Coolpix 4100	Nikon	Digital Camera
Coolpix 5200	Nikon	Digital Camera
Stylus 410 digital	Olympus	Digital Camera
300-digital	Olympus	Digital Camera
U300	Olympus	Digital Camera
X-350	Olympus	Digital Camera
C-760	Olympus	Digital Camera
C-5060	Olympus	Digital Camera
X1	Olympus	Digital Camera
U-mini	Olympus	Digital Camera
Lumix-FZ20	Panasonic	Digital Camera
DMC-FX7GD	Panasonic	Digital Camera
Lumix LC33	Panasonic	Digital Camera
LUMIX DMC-F1	Panasonic	Digital Camera
Optio-S40	Pentax	Digital Camera
Optio-S50	Pentax	Digital Camera
Optio 33LF	Pentax	Digital Camera
Optio MX	Pentax	Digital Camera
Digimax-420	Samsung	Digital Camera
Digimax-400	Samsung	Digital Camera
Sora PDR-T30	Toshiba	Digital Camera
Coolpix 5900	Nikon	Digital Camera
Coolpix S1	Nikon	Digital Camera
Coolpix 7600	Nikon	Digital Camera
DMC-FX7	Panasonic	Digital Camera
Dimage Xt	Minolta	Digital Camera
AZ-1	Olympus	Digital Camera

USB Flash Disk

Product	Company	Type
Cruzer Micro	Sandisk	USB 2.0 USB Flash Drive 128M
Cruzer Mini	Sandisk	USB 2.0 128M
Cruzer Mini	Sandisk	USB 2.0 256M
SONY Micro Vault	Sony	USB 2.0 64MB
FLEX DRIVE	Serotech	USB 2.0 32MB
AnyDrive	A.L tech	USB 2.0 128MB
XTICK	LG	USB 2.0 128M
Micro Mini	Iomega	USB 2.0 128M
iFlash	Imation	USB 2.0 64M
LG	XTICK(M)	USB 2.0 64M
RiDATA	EZDrive	USB 2.0 64M

MP3 Player

Product	Company	Type
Creative MuVo NX128M	Creative	128 MB MP3 Player
Iriver H320	Iriver	20G HDD MP3 Player
YH-920	Samsung	20G HDD MP3 Player
YP-T7	Samsung	MP3 Player
YP-MT6	Samsung	MP3 Player
YP-T6	Samsung	MP3 Player
YP-53	Samsung	MP3 Player
YP-ST5	Samsung	MP3 Player
YP-T5	Samsung	MP3 Player
YP-60	Samsung	MP3 Player
YP-780	Samsung	MP3 Player
YP-35	Samsung	MP3 Player
YP-55	Samsung	MP3 Player
iAUDIO U2	Cowon	MP3 Player
iAUDIO G3	Cowon	MP3 Player
iAudio M3	Cowon	HDD MP3 Player
SI-M500L	Sharp	256MB MP3 Player
H10	Iriver	MP3 Player
YP-T5 VB	Samsung	MP3 Player
YP-53	Samsung	256MB MP3 Player

Multi Card Reader

Product	Company	Type
UNICORN	Unicorn	USB 2.0 7 IN 1 CARD READER UC-601R
USB 2.0 Card Reader	Billionton(Taiwan)	USB 2.0 Card Reader for SD/MMC/RS-MMC(3-in-1)

USB External HDD

Product	Company	Type
CUTIE	Serotech	POCKET HARD DISK DRIVE
MOMOBAY UX-2	Dvico	USB 2.0

Specification

General	Power Requirements	AC 110-240 V ~ 50/60 Hz
	Power Consumption	9 W
	Weight	1.5 Kg
	Dimensions	430mm (W) X 207mm (D) X 37mm (H)
	Operating Temperature Range	+5°C to +35°C
	Operating Humidity Range	10 % to 75 %
Disc	DVD (DIGITAL VERSATILE DISC)	Reading Speed : 3.49 ~ 4.06 m/sec. Approx. Play Time (Single Sided, Single Layer Disc) : 135 min.
	CD : 12Cm (COMPACT DISC)	Reading Speed : 4.8 ~ 5.6 m/sec. Maximum Play Time : 74 min.
	CD : 8Cm (COMPACT DISC)	Reading Speed : 4.8 ~ 5.6 m/sec. Maximum Play Time : 20 min.
	VCD : 12Cm	Reading Speed : 4.8 ~ 5.6 m/sec. Maximum Play Time : 74 min. (Video + Audio)
Video Output	Composite Video	1 channel : 1.0 Vp-p (75 Ω load)
	Component Video	Y : 1.0 Vp-p (75 Ω load) Pr : 0.70 Vp-p (75 Ω load) Pb : 0.70 Vp-p (75 Ω load)
Audio Output	5.1 Channel	F/L,F/R,R/L,R/R,CT,S/W
	*Frequency Response	48 kHz Sampling : 4 Hz to 22 kHz 96 kHz Sampling : 4 Hz to 44 kHz
	*S/N Ratio	110 dB
	*Dynamic Range	100 dB
	*Total Harmonic Distortion	0.004 %

*: Nominal specification

- Samsung Electronics Co., Ltd reserves the right to change the specifications with out notice.
- Weight and dimensions are approximate.

Contact SAMSUNG WORLD WIDE

If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care center.

Region	Country	Customer Care Center ☎	Web Site
North America	CANADA	1-800-SAMSUNG(726-7864)	www.samsung.com/ca
	MEXICO	01-800-SAMSUNG(726-7864)	www.samsung.com
	U.S.A	1-800-SAMSUNG(726-7864)	www.samsung.com
Latin America	ARGENTINE	0800-333-3733	www.samsung.com/ar
	BRAZIL	0800-124-421 , 4004-0000	www.samsung.com
	CHILE	800-SAMSUNG(726-7864)	www.samsung.com/cl
	NICARAGUA	00-1800-5077267	
	HONDURAS	800-7919267	
	COSTA RICA	0-800-507-7267	www.samsung.com/latin
	ECUADOR	1-800-10-7267	www.samsung.com/latin
	EL SALVADOR	800-6225	www.samsung.com/latin
	GUATEMALA	1-800-299-0013	www.samsung.com/latin
	JAMAICA	1-800-234-7267	www.samsung.com/latin
	PANAMA	800-7267	www.samsung.com/latin
	PUERTO RICO	1-800-682-3180	www.samsung.com/latin
	REP. DOMINICA	1-800-751-2676	www.samsung.com/latin
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	VENEZUELA	0-800-100-5303	www.samsung.com/latin
	COLOMBIA	01-8000112112	www.samsung.com.co
Europe	BELGIUM	0032 (0)2 201 24 18	www.samsung.com/be
	CZECH REPUBLIC	844 000 844 Distributor pro Českou republiku: Samsung Zrt., česka organizační složka Vyskočilova 4, 14000 Praha 4	www.samsung.com/cz
	DENMARK	70 70 19 70	www.samsung.com/dk
	FINLAND	030-6227 515	www.samsung.com/fi
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	GERMANY	01805 - SAMSUNG(726-7864) (€ 0,14/Min)	www.samsung.com
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	TADJIKISTAN	8-10-800-500-55-500	
	UKRAINE	8-800-502-0000	www.samsung.com
	LITHUANIA	8-800-77777	www.samsung.lt
	LATVIA	800-7267	www.samsung.com/lv
	ESTONIA	800-7267	www.samsung.ee
Asia Pacific	AUSTRALIA	1300 362 603	www.samsung.com
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	HONG KONG	3698-4698	www.samsung.com/hk
	INDIA	3030 8282 , 1800 110011	www.samsung.com
	INDONESIA	0800-112-8888	www.samsung.com
	JAPAN	0120-327-527	www.samsung.com/jp
	MALAYSIA	1800-88-9999	www.samsung.com/my
	PHILIPPINES	1800-10-SAMSUNG(726-7864)	www.samsung.com/ph
	SINGAPORE	1800-SAMSUNG(726-7864)	www.samsung.com
	THAILAND	1800-29-3232 , 02-689-3232	www.samsung.com
	TAIWAN	0800-329-999	www.samsung.com/tw
	VIETNAM	1 800 588 889	www.samsung.com
Middle East & Africa	TURKEY	444 77 11	www.samsung.com
	SOUTH AFRICA	0860-SAMSUNG(726-7864)	www.samsung.com
	U.A.E	800-SAMSUNG (726-7864), 8000-4726	www.samsung.com

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